

## **ABSTRACT**

Calculating of signal-to-interference ratio (SIR) of a mobile device in a wireless communication system. A communication signal transmitted by the mobile device is non-coherently processed. Interference power of the communication signal is estimated and then  
5 scaled, and the scaled estimated interference power is subtracted from the processed communication signal to thereby estimate signal power. The SIR is calculated by dividing the estimated signal power by the estimated interference power.